

Title (en)  
Ultrasonic vibration bonding method

Title (de)  
Ultraschallschwingungsschweissverfahren

Title (fr)  
Procédé de soudage par vibration ultrasonique

Publication  
**EP 1010492 A2 20000621 (EN)**

Application  
**EP 99123607 A 19991126**

Priority

- JP 35182198 A 19981210
- JP 35425998 A 19981214
- JP 3078999 A 19990209

Abstract (en)  
An ultrasonic vibration bonding method comprising placing metal portions to be bonded formed on a base portion of a first member upon metal portions to be bonded of a second member, pressing the first and second members with a resonator and a mounting table elastically while the base portion of the first member is located on a bonding working portion side of the resonator and the second member is located on a mounting table side, and bonding together the portions to be bonded of the first and second members with ultrasonic vibration transmitted to the resonator from a transducer. This ultrasonic vibration bonding method can improve work efficiency and prevent a connection failure and resin breakage. <IMAGE>

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**B23K 20/10**; **H05K 13/04**

IPC 8 full level  
**H01L 21/60** (2006.01); **B23K 20/10** (2006.01); **H05K 13/04** (2006.01)

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**EP 99123607 A 19991126**; CA 2291296 A 19991130; CN 99126135 A 19991209; DE 69919822 T 19991126; KR 19990056192 A 19991209; TW 88120764 A 19991129; US 45698299 A 19991207